

Module 4: Correctives

Section 4:1:1 Write rules for sequences.

Write a rule for the sequence below. Your rule should be written as an algebraic expression. Find the 115th term of the sequence. (4 points each)

1) Expression:

Term Number	1	2	3	4	5	...	115
Term	5	9	13	17	21		

2) Expression:

Term Number	1	2	3	4	5	...	115
Term	4	10	16	22	28		

3) Expression:

Term Number	1	2	3	4	5	...	115
Term	1	7	13	19	25		

Section 4:2:1 Rotational Symmetry

Tell whether each figure appears to have rotational symmetry. If the figure has rotational symmetry, give the minimal rotational symmetry and tell what other rotational symmetries it has. (4 points each)

4)

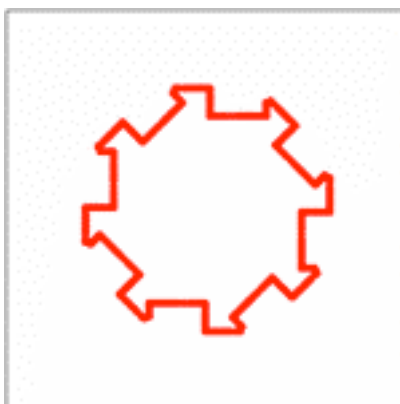


Circle one: Yes OR No

Minimum rotation:

Other symmetries:

5)



Circle one: Yes OR No

Minimum rotation:

Other symmetries:

6)



Circle one: Yes OR No

Minimum rotation:

Other symmetries:

Section 4:2:2 Recognize rational and irrational numbers.

Tell whether each number is rational or irrational. EXPLAIN your answer. (2 points each)

7) $\sqrt{.81}$

8) $\frac{3}{8}$

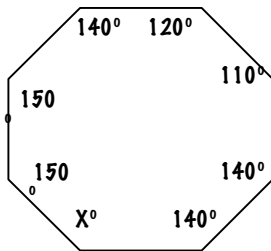
9) 0.4

10) $\sqrt{17}$

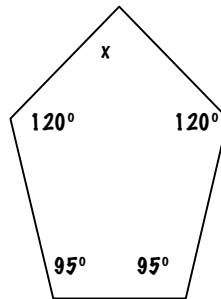
Section 4:4:2 Find the sum of the measure of the interior angles of a polygon.

Find the missing angle. (3 points each)

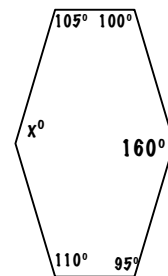
11)



12)



13)



Section 4:5:1 Identify different types of triangles by looking at their side lengths.

Tell whether a triangle with the given side lengths is acute, right, or obtuse. (3 points each)

14) 8 cm, 13 cm, 9 cm

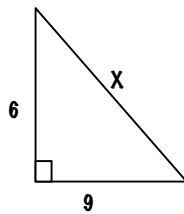
15) 5 mm, 6 mm, 4 mm

16) 10 ft, 8 ft, 6 ft

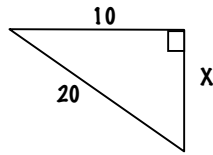
Section 4:5:2 Using the Pythagorean Theorem

For each right triangle, find the unknown side length. Round answers to the nearest hundredth. (3 points each)

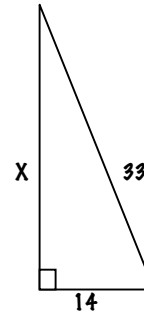
17)



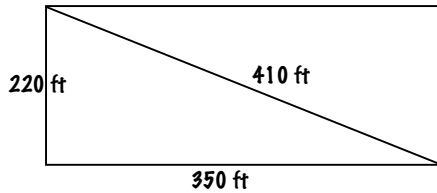
18)



19)



20) A surveyor was hired to measure an empty lot, and measured the lot as shown. Is the lot a rectangle? EXPLAIN your answer. (3 points)



Module 4: Correctives

Solve the following. (2 points each)

Add.

$$\begin{array}{r} 1) \ 5\frac{1}{3} \\ + \ 2\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 2) \ 9\frac{1}{4} \\ + \ 5\frac{2}{3} \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 3) \ 8\frac{1}{5} \\ - \ 4\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 15\frac{4}{7} \\ - \ 3\frac{1}{3} \\ \hline \end{array}$$

Multiply.

$$5) \ 6 \bullet 4\frac{1}{2}$$

$$6) \ 9\frac{1}{2} \bullet \frac{3}{7}$$

Divide.

$$7) \ 5\frac{1}{3} \div 3$$

$$8) \ 6\frac{1}{2} \div 2\frac{3}{5}$$

Name _____

Hour _____

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$$\begin{array}{r} 2) \ 9\frac{1}{4} \\ + \ 5\frac{2}{3} \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 3) \ 8\frac{1}{5} \\ - \ 4\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 15\frac{4}{7} \\ - \ 3\frac{1}{3} \\ \hline \end{array}$$

Multiply.

$$5) \ 6 \bullet 4\frac{1}{2}$$

$$6) \ 9\frac{1}{2} \bullet \frac{3}{7}$$

Divide.

$$7) \ 5\frac{1}{3} \div 3$$

$$8) \ 6\frac{1}{2} \div 2\frac{3}{5}$$